

National Institute
of Standards and Technology



National Voluntary
Laboratory Accreditation Program

ISO/IEC 17025:1999
ISO 9002:1994

Scope of Accreditation



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CALIBRATION LABORATORIES

NVLAP LAB CODE 200464-0

NYS BUREAU OF WEIGHTS & MEASURES METROLOGY LABORATORY

NYS Campus Bldg. 7A
1220 Washington Avenue
Albany, NY 12235
Mr. Ross Andersen

Phone: 518-457-3146 fax: 518-457-5693

E-Mail: agmweigh@agmkt.state.ny.us

URL: http://www.agmkt.state.ny.us/Weights_and_Measures/wmmetrol.htm

DIMENSIONAL

NVLAP Code: 20/D13

Surveying Rods and Tapes

<i>Range</i>	<i>Best Uncertainty (\pm) in inches^{note 1}</i>	<i>Remarks</i>
0.5 in to < 12 in	0.0022	Rules - Rule Method
12 in to 24 in	0.0022	Rules - Rule Method
1 ft to 16 ft (0.1 to 5) m	0.00441	Rules - Tape Method
1 ft to 16 ft (0.1 to 5) m	0.0044	Steel Tapes - Bench Method
15 ft to 30 ft (5 to 10) m	0.0062	Steel Tapes - Bench Method

December 31, 2004

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30 ft to 45 ft (10 to 15) m	0.0076	Steel Tapes - Bench Method
45 ft to 60 ft (15 to 20) m	0.0088	Steel Tapes - Bench Method
60 ft to 75 ft (20 to 25) m	0.0099	Steel Tapes - Bench Method
75 ft to 90 ft (25 to 30) m	0.0108	Steel Tapes - Bench Method
90 ft to 105 ft (30 to 35) m	0.0117	Steel Tapes - Bench Method
105 ft to 120 ft (35 to 40) m	0.0125	Steel Tapes - Bench Method
120 ft to 135 ft (40 to 45) m	0.0132	Steel Tapes - Bench Method
135 ft to 150 ft (45 to 50) m	0.0140	Steel Tapes - Bench Method
150 ft to 165 ft (50 to 55) m	0.0146	Steel Tapes - Bench Method
165 ft to 180 ft (55 to 60) m	0.0153	Steel Tapes - Bench Method

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180 ft to 195 ft	0.0159	Steel Tapes - Bench Method
195 ft to 210 ft	0.0165	Steel Tapes - Bench Method
1/4 yd to 5 yd	0.0077	Fabric Tapes - Tape Method
5 yd to 12 yd	0.0139	Fabric Tapes - Tape Method
1 ft to 100 ft (1 to 30) m	0.1273	Fabric Tapes - Tape Method
100 ft to 200 ft (30 to 60) m	0.1800	Fabric Tapes - Tape Method
200 ft to 300 ft (60 to 90) m	0.2205	Fabric Tapes - Tape Method

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TIME & FREQUENCY

NVLAP Code: 20/F02
Time Dissemination

<i>Range</i>	<i>Best Uncertainty (\pm) in sec.^{note 1}</i>	<i>Remarks</i>
1 hr	0.10	Stopwatches

MECHANICAL

NVLAP Code: 20/M08
Mass

<i>Range</i>	<i>Best Uncertainty (\pm) in mg I^{note 1}</i>	<i>Remarks</i>
30 kg	23	Echelon II
25 kg	17	Echelon II
20 kg	16	Echelon II
10 kg	9.89	Echelon II
5 kg	2.07	Echelon II
3 kg	1.57	Echelon II
2 kg	1.35	Echelon II
1 kg	0.386	Echelon II

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500 g	0.092	Echelon II
300 g	0.080	Echelon II
200 g	0.076	Echelon II
100 g	0.0330	Echelon II
50 g	0.0196	Echelon II
30 g	0.0153	Echelon II
20 g	0.0135	Echelon II
10 g	0.0092	Echelon II
5 g	0.0080	Echelon II
3 g	0.0076	Echelon II
2 g	0.0074	Echelon II
1 g	0.0065	Echelon II
500 mg	0.0070	Echelon II
300 mg	0.0063	Echelon II
200 mg	0.0060	Echelon II
100 mg	0.0074	Echelon II
50 mg	0.0075	Echelon II

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30 mg	0.0075	Echelon II
20 mg	0.0074	Echelon II
10 mg	0.0078	Echelon II
5 mg	0.0074	Echelon II
3 mg	0.0073	Echelon II
2 mg	0.0072	Echelon II
1 mg	0.0075	Echelon II
50 lb	37.98	Echelon II
25 lb	19.40	Echelon II
20 lb	16.02	Echelon II
10 lb	7.98	Echelon II
5 lb	3.68	Echelon II
3 lb	2.513	Echelon II
2 lb	1.644	Echelon II
1 lb	0.2329	Echelon II
0.5 lb	0.1395	Echelon II

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0.3 lb	0.0828	Echelon II
0.2 lb	0.0672	Echelon II
0.1 lb	0.0628	Echelon II
0.05 lb	0.0350	Echelon II
0.03 lb	0.0246	Echelon II
0.02 lb	0.0211	Echelon II
0.01 lb	0.0207	Echelon II
0.005 lb	0.0127	Echelon II
0.003 lb	0.0099	Echelon II
0.002 lb	0.0080	Echelon II
0.001 lb	0.0090	Echelon II
0.005 lb	0.0067	Echelon II
0.003 lb	0.0063	Echelon II
0.0002 lb	0.0073	Echelon II
0.0001 lb	0.0074	Echelon II
0.00005 lb	0.0071	Echelon II
0.00003 lb	0.0072	Echelon II

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0.00002 lb	0.0072	Echelon II
0.00001 lb	0.0074	Echelon II
0.000005 lb	0.0070	Echelon II
0.000003 lb	0.0071	Echelon II
0.000002 lb	0.0071	Echelon II
0.000001 lb	0.0073	Echelon II

<i>Range</i>	<i>Best Uncertainty (\pm) in g^{note 1}</i>	<i>Remarks</i>
1000 kg	16.805	Echelon III
500 kg	5.034	Echelon III
200 kg	2.890	Echelon III
100 kg	2.868	Echelon III

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<i>Range</i>	<i>Best Uncertainty (\pm) in mg^{note 1}</i>	<i>Remarks</i>
50kg	396.817	Echelon III
30 kg	386.922	Echelon III
25 kg	198.434	Echelon III
20 kg	195.417	Echelon III
10 kg	33.532	Echelon III
5 kg	4.853	Echelon III
3 kg	5.265	Echelon III
2 kg	5.222	Echelon III
1 kg	5.196	Echelon III
500 g	0.919	Echelon III
300 g	0.912	Echelon III
200 g	0.909	Echelon III
100 g	0.908	Echelon III
50 g	0.131	Echelon III
30 g	0.129	Echelon III
20 g	0.128	Echelon III

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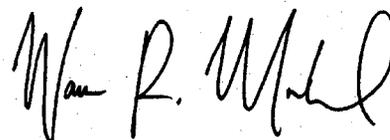
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NYS BUREAU OF WEIGHTS & MEASURES METROLOGY LABORATORY

10 g	0.128	Echelon III
5 g	0.128	Echelon III
3 g	0.019	Echelon III
2 g	0.019	Echelon III
1 g	0.019	Echelon III
500 mg	0.020	Echelon III
300 mg	0.019	Echelon III
200 mg	0.019	Echelon III
100 mg	0.019	Echelon III
50 mg	0.019	Echelon III
30 mg	0.019	Echelon III
20 mg	0.019	Echelon III
10 mg	0.019	Echelon III
5 mg	0.019	Echelon III
3 mg	0.019	Echelon III
2 mg	0.019	Echelon III
1 mg	0.019	Echelon III

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<i>Range</i>	<i>Best Uncertainty (\pm) in g^{note 1}</i>	<i>Remarks</i>
2500 lb	18.046	Echelon III
2000 lb	12.828	Echelon III
1000 lb	5.646	Echelon III
500 lb	3.175	Echelon III
200 lb	2.560	Echelon III
100 lb	1.564	Echelon III
50 lb	381.525	Echelon III
25 lb	18.682	Echelon III
20 lb	17.859	Echelon III
10 lb	6.138	Echelon III
5 lb	5.188	Echelon III
3 lb	5.188	Echelon III
2 lb	5.188	Echelon III
1 lb	0.907	Echelon III
0.5 lb	0.907	Echelon III

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0.3 lb	0.907	Echelon III
0.2 lb	0.907	Echelon III
0.1 lb	0.130	Echelon III
0.05 lb	0.128	Echelon III
0.03 lb	0.128	Echelon III
0.02 lb	0.128	Echelon III
0.01 lb	0.128	Echelon III
0.005 lb	0.019	Echelon III
0.003 lb	0.019	Echelon III
0.002 lb	0.019	Echelon III
0.001 lb	0.019	Echelon III
8 oz	0.907	Echelon III
4 oz	0.907	Echelon III
2 oz	0.907	Echelon III
1 oz	0.907	Echelon III
1/2 oz	0.019	Echelon III
1/4 oz	0.019	Echelon III

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1/8 oz	0.019	Echelon III
1/16 oz	0.019	Echelon III
1/32 oz	0.019	Echelon III

NVLAP Code: 20/M12

Volume

Range	Best Uncertainty (\pm) in ml^{note 1}	Remarks
2 fl oz	0.01391	Gravimetric - Glassware
1 gill	0.03338	Gravimetric - Glassware
1 pint	0.10093	Gravimetric - Glassware
1 quart	0.20417	Gravimetric - Glassware
1 gal	0.44776	Gravimetric - Glassware

Range	Best Uncertainty (\pm) in gal.^{note 1}	Remarks
1 gal	0.00016	Gravimetric - Metal Measures
5 gal	0.00053	Gravimetric - Metal Measures
10 gal	0.00075	Gravimetric - Metal Measures

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<i>Range</i>	<i>Best Uncertainty (±) in min.^{note 1}</i>	<i>Remarks</i>
1 gill (100 ml)	1.64	Transfer - Glassware
1/2 pt (200 ml)	2.08	Transfer - Glassware
1 pt (500 ml)	3.48	Transfer - Glassware
1 qt (1 L)	6.87	Transfer - Glassware
1/2 gal (2 L)	12.79	Transfer - Glassware
1 gal (5 L)	12.79	Transfer - Glassware

<i>Range</i>	<i>Best Uncertainty (±) in gal^{note 1}</i>	<i>Remarks</i>
2 gal	0.0005	Transfer - Metal Measures
5 gal	0.0013	Transfer - Metal Measures
25 gal	0.0050	Transfer - Metal Measures
50 gal	0.0257	Transfer - Metal Measures
100 gal	0.0265	Transfer - Metal Measures
132 gal	0.0273	Transfer - Metal Measures
150 gal	0.0278	Transfer - Metal Measures

1. Represents an expanded uncertainty using a coverage factor, $k=2$.

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